Dr. Dodul Mondal
ONCOLOGIST

# Dr. Dodul Mondal

22+ Experience in Patient Care

Director and Clinical Administrator, Radiation Oncology at Max Institute of Cancer Care, Max Super Speciality Hospital, Saket, Delhi. Fellow, Proton Beam Therapy and Precision Radiation Oncology Cancer Institute of New Jersey, USA

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# Radiation Therapy: Precision in Cancer Care

## What Is Radiation Therapy?

- A widely used treatment for many types of cancer
- Uses carefully controlled high-energy radiation to target cancer cells
- Can damage cancer cells and stop them from growing and dividing
- May be used alone or along with surgery, chemotherapy, or other treatments

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# How Does Radiation Therapy Work?

## Step 1: Treatment Planning

- Doctors identify the tumour and nearby organs.
- Imaging helps create a personalised treatment plan.

## Step 2: Radiation Delivery

- Radiation is directed toward the treatment area.
- Advanced techniques help shape the radiation dose.

## Step 3: Protecting Healthy Tissue

- The treatment is carefully planned to limit radiation exposure to surrounding healthy tissues.

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# When Is Radiation Therapy Used?

## Targeting Cancer Cells with Precision

Radiation therapy may be used to:

- Treat cancer and aim for long-term control
- Shrink a tumour before surgery
- Destroy remaining cancer cells after surgery
- Work alongside chemotherapy or other systemic treatments
- Relieve symptoms, such as pain or bleeding, in advanced cancer

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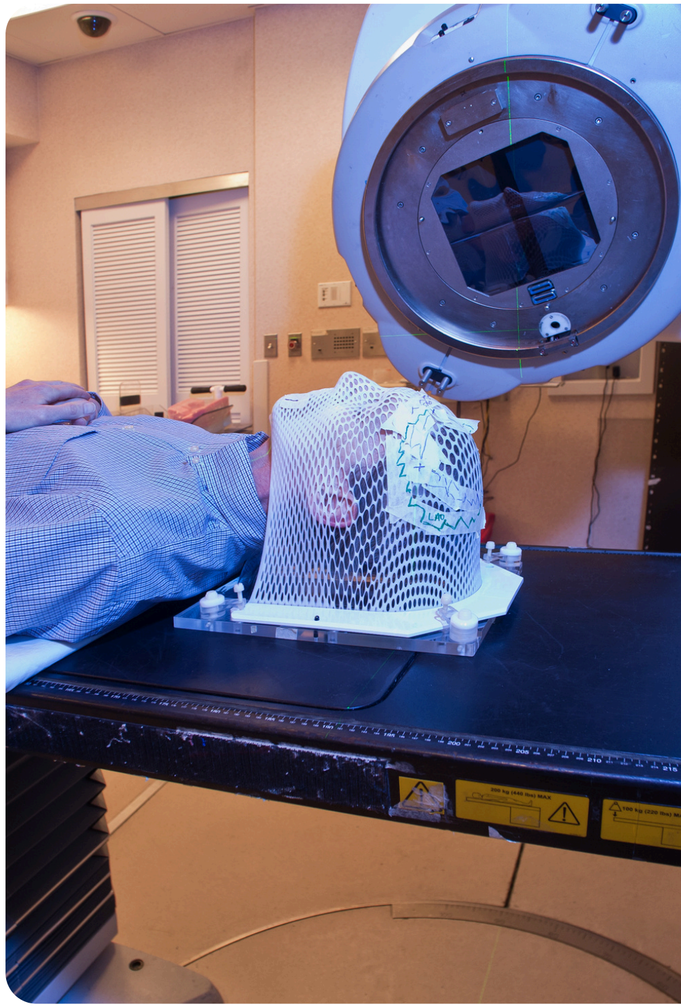
# Modern Radiation Therapy Techniques

- **IMRT**
  Shapes radiation intensity to better match the tumour.
- **SRS / SBRT**
  Delivers highly focused radiation in selected cases.
- **IGRT**
  Uses imaging to improve treatment positioning and accuracy.
- **Proton Therapy**
  Uses protons to target tumours while potentially reducing radiation exposure to nearby healthy tissues.



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# What Happens During Treatment?

## From Planning to Your Treatment Session

### Before Treatment

- Detailed imaging and treatment planning
- The treatment area is carefully mapped
- The radiation dose and schedule are determined

### During Treatment

- You are positioned carefully on the treatment machine
- The radiation session is usually painless
- Treatment itself often takes only a few minutes, although the full appointment may take longer

### After Treatment

- You can usually leave after the session
- Your care team monitors your response and manages side effects

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# Radiation Therapy: Personalised Cancer Care

- Treatment is designed according to the type and location of cancer
- Advanced planning helps improve accuracy
- Side effects vary depending on the treatment area and dose
- Your oncology team will explain expected effects and ways to manage them
- Regular follow-up helps assess treatment response and recovery

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# THANK YOU

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